

Amendments to the Specification

Please amend the TITLE of the Invention as follows:

TITLE: ~~METHOD OF LENGTHY PRODUCT SURFACE TREATMENT, LINE AND~~
~~DEVICE FOR ITS EMBODIMENT~~ DEVICE FOR APPLYING COATINGS TO
LENGTHY PRODUCTS

Please amend the Published Specification (US 2006/0147643 A1) at the following paragraphs:

[0019] Achievement of said results and omitting above said disadvantages of the analogs is provided due to the surface treatment and coating applying on lengthy product such as wire, bar, rolled product, band (ribbon), tube, and operated with direct (without bending) transportation of lengthy long product ~~rough-through~~ the device for applying the coating, in which the liquid is placed (solution, melt). The liquid is, for example, metal melt--aluminum, zinc or their alloys and others, or polymer material melt, or solution of organic or inorganic substance and so on.

[0020] Device for product surface treatment, particularly for applying the coating, comprises the tank with liquid, for example, coating metal melt and the camera placed above the tank for applying the coating with input and output passages and intake vertical passage, plunged into the melt in the tank. For the melt lifting from the tank ~~rough-through~~ the vertical passage into the camera for coating applying the excessive pressure in the tank and pressure discharge in the camera for applying the coating are provided. The pressure differential in the chamber above the camera melt surface and above the tank melt surface is such, that the melt level is above the input and output passages of the camera. The pressure discharge in the camera for applying the coating

also serves for preventing the melt flowing out the camera for applying the coating. Therewith the following condition should be maintained:

[0026] ~~Then~~ Then the lengthy product is supplied into the device for continuous applying the coating. This device, which is also an invention, comprises the camera for applying the coating hermetically assembled on the melt tank. The camera for applying the coating and the tank are placed into the housing of the heating oven. The camera for applying the coating in its lower part has intake vertical passage plunged into the melt tank. The camera for applying the coating and the tank are provided correspondingly with input and output passages with outlets for providing the pressure discharge above the melt surface inside the camera and excessive pressure above the melt surface inside the tank.

[0047] Device 12 for continuous applying the metal coatings on the steel lengthy products, such as wire, band, rolled products, tube, is made according to the same scheme (FIG. [[4]]3). The difference between them is determined only by product cross-section shape and its sizes.

[0055] Under the creation of excessive pressure in the tank 14 through the inlet 22 and pressure discharge in the camera 13 through the outlet 19 the melt goes from the tank 14 to the camera 13 through the vertical passage and is set on the level higher ~~of~~ than the input 23 and output 24 passages.

[0060] Device 12 for applying the coating has a mean for melt level regulating in camera 13 for applying the coating. It is necessary to maintain melt level in camera 13 because of the fact that

melt in camera is constantly expended and melt level is tended to decrease. When melt level is decreased differential of air pressure and pressure in camera is increased (due to P.sub.m.col decreasing), which can cause air break (air ~~bubbles~~bubbles) through input and output passages of the camera 13 to the camera. It is undesirable because spoils the process of applying the coating and can cause coating defects on the product. Besides, air ~~bubbles~~bubbles in melt will cause its contamination by oxide impurities. This contamination spoils conditions of coating formation and causes defects of the coating.

[0061] ~~Mean~~Means for regulating the melt level in camera 13 comprises melt level detector 17, which gives electric signal. Signal from melt level detector goes to the system for pressure regulation, which provides constant melt level maintaining in camera 13 by means of compressor regulating air pressure in tank 14 with melt (any appropriate known system will do).